



Cooperative State Research, Education, and Extension Service



Science & Education Resources Development (SERD)

Selected Funding Opportunities

Science and Education Resources Development

Mission Statement

To achieve and maintain excellence in university academic, research, extension and international programs in the food and agricultural sciences, and to build coalitions and alliances with public and private organizations.

1. National Needs Graduate Fellowship Grants

Purpose:

Encourages students to pursue and complete graduate degrees in areas of the food and agricultural sciences for which development of scientific and professional expertise is designated as a national need.

Targeted National Need Areas:

- Animal Biotechnology
- Plant Biotechnology
- Food Science – Human Nutrition
- Water Science
- Management & Marketing – Agribusiness, Food and Forest Products
- Engineering – Food, Forest, Biological and Agricultural
- Multidisciplinary

National Needs Graduate Fellowship Grants

Awards:

- Two – Four Fellows: U.S. citizens, newly recruited at the graduate degree level, in targeted need area

Doctoral fellows – 3 years at \$22,000 annually

Masters level fellows – 2 years at \$15,000 annually

Grantee institution awarded \$1,000/year cost-of-education allowance per Fellow.

- Supplemental Grants: Current Fellows receive supplemental grants of \$10,000 to cover travel and living expenses for special international study or thesis/dissertation research experiences.

2. Higher Education Multicultural Scholars Grants

Purposes:

- To increase the multicultural diversity of the food and agricultural scientific and professional workforce
- To advance the educational achievement of all Americans



Eligibility

U.S. colleges and universities offering baccalaureate degrees or a first professional degree program (e.g., DVM) in at least one discipline of the food and agricultural sciences.

- Must be U.S. citizens or nationals and newly recruited to a course of study in the food and agricultural sciences.
- Students attending two-year institutions may participate in the program where an articulation or bridging agreement exists with an eligible four-year institution.
- Students must demonstrate a strong interest in pursuing a baccalaureate degree and preparing for a career as a food or agricultural scientist or professional. Students must be enrolled in full-time study.

Higher Education Multicultural Scholars Grants

Awards:

- Maximum: \$100,000 per institution
- Approximately \$6,000 per scholar per year for two, three or four years of study (depending on academic level at the time of entry into the program)
- 25% non-Federal match required
- \$500 annual cost-of-education allowance for each scholar in lieu of indirect costs.
- Supplemental Grants: Current Scholars receive supplemental grants of \$12,500 (including matching of \$2,500 for two years) to cover travel, additional tuition, living expenses and stipend while the Scholar is on special experiential learning assignment.

Individuals may not apply directly to USDA. Eligible institutions select and award scholarships.

Funding: \$2 million in combined FY 02-03 appropriations

3. National Awards Program for Excellence in College and University Teaching in the Food and Agricultural Sciences

- **Purpose:** Honors a select group of college and university teachers who have excelled at teaching. Focuses national attention on the teaching role which is fundamental to the development of scientific and professional expertise essential to the future growth and progress of our Nation's food and agricultural system.
- **Eligibility:** Teacher nominees must be employed by a college or university which (1) confers a baccalaureate or higher degree in at least one area of the food and agricultural sciences, (2) has demonstrated a commitment to the food and agricultural sciences, and (3) attributes a high priority to its education mission.
- Nominee must hold a full-time appointment as a tenured faculty member with responsibility for undergraduate and/or graduate instruction in an area of the food and agricultural sciences. Teachers who work at institutions that do not confer tenure must have senior status.

National Awards Program for Excellence in College and University Teaching in the Food and Agricultural Sciences

- Individuals who do not receive an award in a given year are eligible for re-nomination in subsequent years. Recipients of regional monetary awards are not eligible for a period of 3 years after an award. National award winners are not eligible for re-nomination.
 - **Due Date for Nominations:** April 15
 - **Awards:**
 - 8 Regional - \$2,000 (2 in each of 4 regions)
 - 2 National - \$5,000, to be used to strengthen instructional programs at institutions of their choice.
- Awards are presented to the winners at a special National Awards Ceremony in the Fall.

4. Higher Education Challenge Grants Program

Purposes:

- Address state, regional, national, international educational need
- Involve a creative or novel approach to improve teaching
- Facilitate better working relationships in the university science and education community

Eligibility

- U.S. colleges and universities offering a baccalaureate or first professional degree in the food and agricultural sciences



Higher Education Challenge Grants Program

Targeted Areas of Support:

- Curricula Design – Materials Development
- Faculty Preparation and Teaching Enhancement
- Instruction Delivery Systems
- Student Experiential Learning

Awards:

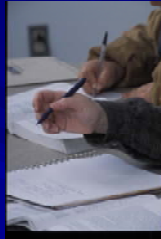
- Regular – up to \$100,000 (total, not per year), 18 to 36 months duration
- Joint projects – up to \$250,000 (3+ institutions)

Non-Federal dollar for dollar match required

5. Secondary, Two-Year Postsecondary Ag Education Challenge Grants Program

Purposes:

- Improve the quality of agricultural teaching programs in high schools and community and junior colleges
- Encourage more students to enter the food and agricultural sciences education and academic community



Secondary, Two-Year Postsecondary Ag Education Challenge Grants Program

Eligibility:

- High schools (grades 9-12 only) and community and junior colleges offering the associate degree (4-year institutions can partner)

Targeted Areas of Support:

- Curricula Design – Materials Development
- Faculty Preparation and Teaching Enhancement
- Expanding Career Opportunities
- Integrating Agriculture into the Curriculum
- Fostering Postsecondary/Employer Collaborations

Awards:

- Regular – up to \$25,000 (total, not per year); 18 – 24 months duration
- Joint (applicant + one additional partner) – up to \$40,000 (total, not per year)

6. International Science and Education (ISE) Competitive Grants Program

- Supports international agricultural extension, teaching and research activities on campuses
- Awards due in September
- Awards up to \$100,000
- Call International Programs (202) 720-3801

7. Hispanic-Serving Institutions (HSI) Education Grants Program

Purpose:

- To promote and strengthen HSI's to produce graduates capable of enhancing the Nation's food and agricultural scientific and professional workforce.

Eligibility:

- 2- or 4-year college or university with 1) at least 25% Hispanic student enrollment and 2) not less than 50% of low-income Hispanic students



USDA/CSREES Priorities

- Agricultural and Environmental Quality
- Agricultural Security
- Genomics and Food and Fiber Production
- Obesity, Human Nutrition, and Food Science
- Food Safety
- Rural and Community Development

Do they need to have an agricultural program to apply?

 **NO**

****Why do you need to apply?****

- Obtain funding from USDA (\$\$\$\$K)
- Demonstrate your institution is interested in collaborating the USDA
- RFA OUT: NOVEMBER 2006
- DEADLINE: February 2007 COB at CSREES
- Funding up to 2 Grants per year per Institution
- No waiting period/ No matching required
- 20% indirect cost

Build upon what you have...

- Business-----Agribusiness
- Biology-----Biotechnology w/emphasis in food and ag related topics
- General sciences-----Nutrition/Obesity
- Culinary arts-----Food safety
- Chemistry-----Water quality

Academic Disciplines

- Entomology - Plant
- Human Nutrition
- General Food & Agricultural Sciences
- Aquaculture
- Veterinary Medicine/Science
- Watershed Management
- Agricultural/Biological Engineering
- Entomology - Animal
- Environmental Sciences/Management
- Animal Sciences
- Soil Sciences
- Family & Consumer Sciences
- International Education/Research
- Plant Sciences and Horticulture (including Turf Sciences)

Academic Disciplines (cont.)

- Conservation and Renewable Natural Resources (includes Forestry and - Ecology/Wetlands)
- Food Science/Technology & Manufacturing/Food Safety
- Related Biological Sciences (General/Basic Biotechnology, Biochemistry, and Microbiology)
- Water Science/Water Resources (including Water Quality)
- Agribusiness Management and Marketing (incl. Erg. Economics)
- Agricultural Social Sciences (includes Agricultural Education, Agricultural Communications, and Rural Sociology)
- OTHER

HSIs Education Grants Program

- No limit on no. of applications/institution
- Duration –
24 to 36-months
- Grant Size Total –
Max \$200,000 - Reg. Project (One institution)
Max \$300,000 - Joint Project (Two)
Max \$400,000 – Consortium (Five HSIs+)
- Up to \$50K additional for student scholarships

Encouraging in FY 2006 HSI Education Grants Program

- Performance-based Objectives
- Aligning objectives with USDA's Mission
- Collaboration with **USDA Agency**
- External evaluator (use up to 10% funds)
- A web page as part of dissemination
- Supplemental funds for scholarship for a Hispanic student

Looking for...

- Projects that develop and implement academic coursework that prepares students to address the USDA/CSREES priorities and areas of need
- Projects that implement or recruit for programs in areas of student shortages on priority areas
- Projects that form partnerships among several colleges and universities to more efficiently deliver academic instruction and could positively impact large number of students

HSI Education Grants Program Targeted Areas of Support

- Faculty Preparation – Teaching Enhancement
- Curricula Design, Materials Development and Library Resources
- Instruction Delivery Systems
- Scientific Instrumentation – Teaching
- Student Experiential Learning
- Student Recruitment and Retention (including financial assistance)

1. Curricula Design, Materials Development and Library Resources



Examples:
Development of courses
Introduction of new subjects
Acquisition of new journals

- Increases quality and constantly renew academic materials and programs

2. Faculty Preparation and Enhancement for Teaching

Example:

Providing faculty with further experience in the field and/or expanding competency in new technologies



- Advances faculty development in areas of teaching competency and leadership

3. Instruction Delivery Systems

Example:

Institutions collaborate to provide more opportunity for scholarship and/or use new technologies to deliver information



- Encourages use of alternative methods of instruction to accommodate different learning styles and enhance education

4. Scientific Instrumentation for Teaching

Example:

State-of-the-art instructional scientific equipment and/or upgrading existing equipment



- Provides students with suitable, up-to-date equipment, allowing for increased scientific understanding and progress

5. Student Experiential Learning

- Provides internships and experiences that will further the student scientific & professional competencies development



6. Student Recruitment and Retention

Example:

Mentoring programs and financial assistance (i.e. scholarships)



- Strengthens initiatives to attract and retain students within agriculture and food programs

Application ...assembled in the following order:

- 1) Proposal Cover Page (Form CSREES-2002)
- 2) Table of Contents
- 3) Project Summary (Form CSREES-2003)
- 4) Response to Previous Review
- 5) Project Description
- 6) References
- 7) Appendices to Project Description
- 8) Key Personnel
- 9) Collaborative Arrangements (Including Letters of Support)
- 10) Conflict-of-Interest List (Form CSREES-2007)
- 11) Budget (Form CSREES-2004)
- 12) Budget Narrative
- 13) Current and Pending Support (Form CSREES-2008)
- 14) Assurance Statement(s) (Form CSREES-2008)
- 15) Compliance w/National Environmental Policy Act (Form CSREES-2006)
- 16) Page B, Proposal Cover Page (Form CSREES-2002)-Data on Project Director

Application vs. Evaluation Criteria

■ Five Evaluation Factors (Total 100 points)

- | | |
|---|-----------|
| ■ Potential for Advancing Education Quality | 30 points |
| ■ Approach and cooperative linkages | 25 points |
| ■ Institutional commitment and resources | 15 points |
| ■ Key Personnel | 20 points |
| ■ Budget and cost-effectiveness | 10 points |

SERD Administration and Directors

Administration

George Cooper, Deputy Administrator
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Directors

Higher Education Programs

Jeff Gilmore
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International Programs

Hiram Larew
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Multicultural Alliances

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Selected SERD Programs and Contacts

Hispanic-Serving Institutions Education Program
Irma Lawrence, ilawrence@csrees.usda.gov

Higher Education Challenge Grants
Greg Smith, gsmith@csrees.usda.gov

Secondary, Two-Year Postsecondary Ad Education Challenge Grants Program
Greg Smith, gsmith@csrees.usda.gov

Scholars Experiential Grants (limited to current Multicultural Scholars)
Audrey Trotman, atrotman@csrees.usda.gov



Selected SERD Programs and Contacts

International Science and Education Competitive Grants Program
Hiram Larew, hlarew@csrees.usda.gov

Multicultural Scholars Program
Audrey Trotman, atrotman@csrees.usda.gov

National Awards for Teaching Excellence
Greg Smith (University), gsmith@csrees.usda.gov

National Needs Graduate Fellowships
Audrey Trotman, atrotman@csrees.usda.gov



■ Thank You!!!